## IN THE CLAIMS

1. (Currently Amended) A computer program product for automatically determining if a packet is a new, exploit candidate, saidthe computer program product comprising:

a computer-readable tangible storage devicemedium;

first program instructions to determine if saidthe packet is a known exploit-or portion thereof;

second program instructions to determine if saidthe packet is addressed to a broadcast IP address of a network; and

third program instructions to determine if saidthe packet is network administration traffic;

fourth program instructions, responsive to saidthe packet being a -known exploit or portion thereof, OR the packet being addressed to a broadcast IP address of a network, OR the packet being or network administration traffic, to determine that saidthe packet is not -a new, exploit candidate; and

fifth program instructions, responsive to saidthe packet not being a known exploit or portion thereof. AND the packet not being addressed to a broadcast IP address of a network, AND the packet not being network administration traffic AND or the packet not being another type of traffic known to be benign, to determine and report that saidthe packet is a new, exploit candidate; and wherein

saidthe first, second, third, fourth and fifth program instructions are stored embodied on saidthe computer-readable tangible storage devicemedium.

2. (Currently Amended) The A computer program product of as set forth in claim 1 further comprising:

sixth program instructions to determine if saidthe packet is web crawler traffic; and wherein

saidthe fourth program instructions are responsive to saidthe packet being a known exploit or portion thereof, OR the packet being addressed to a broadcast IP address of a network, OR the packet being network administration traffic OR the packet being or web crawler traffic, to determine that saidthe packet is not a new, exploit candidate; and

saidthe fifth program instructions are responsive to saidthe packet not being a known exploit-or portion thereof, AND the packet not being addressed to a broadcast IP address of a network, AND the packet not being network administration traffic AND the packet not being or web crawler traffic, to determine that saidthe packet is a new, exploit candidate; and

saidthe sixth program instructions are stored embodied on saidthe computer-readable tangible storage devicemedium.

- 3. (Currently Amended) The A computer program product of as set forth in claim 1 wherein said the first program instructions determine if said the packet is a known exploit or portion thereof by searching said the packet for a known signature of said a known exploit.
- 4. (Currently Amended) TheA computer program product of as set forth in claim 1 wherein saidthe first program instructions determine if saidthe packet is a known exploit by comparing an identity of saidthe packet to one or more identities, sent by an intrusion detection system, of respective packet(s) which saidthe intrusion detection system determined to contain a known exploit or portion thereof.

- 5. (Currently Amended) The A computer program product of as set forth in claim 1 wherein said the packet was received by a honeypot computing device at an unused IP address, and said the computer program product is installed and executed at said the honeypot computing device.
- 6. (Currently Amended) The A computer program product of as set forth in claim 1 further comprising:

sixth program instructions, responsive to saidthe fifth program instructions determining that saidthe packet is a new exploit candidate, to determine a signature of saidthe packet, or a sequence of packets including the first said packet, and report saidthe new exploit candidate and saidthe signature to an administrator; and wherein

saidthe sixth program instructions are stored embodied on saidthe computer-readable tangible storage devicemedium.

- 7. (Currently Amended) TheA computer program product of as set forth in claim 6 wherein responsive to if said the fourth program instructions determining that said the packet is not a new, exploit candidate, then a signature of said the packet or a sequence of packets including said first packet is not being determined.
- 8. (Currently Amended) TheA computer program product of as set forth in claim 1 wherein saidthe second program instructions determine if saidthe packet is addressed to a broadcast IP address of saidthe network- by comparing a destination IP address of saidthe packet to a gateway IP address of the network and a netmask of saidthe network which identifies a broadcast IP address of saidthe network.

9. (Currently Amended) A<u>The</u> computer program product <u>of as set forth in</u> claim 1 wherein:

saidthe second program instructions also determine if saidthe packet has -a protocol listed in -a list of protocols <u>previously determined assumed</u> to be harmless network broadcast traffic;

saidthe fourth program instructions-is are responsive to saidthe packet being a known exploit-or portion thereof, OR the packet being addressed to a broadcast IP address of a network, OR the packet being network administration traffic OR the packet or-having a protocol listed in a list of protocols previously determined assumed to be harmless network broadcast traffic, to determine that saidthe packet is not a new, exploit candidate; and

saidthe fifth program instructions-is are responsive to saidthe packet not being a known exploit or portion thereof, AND the packet not being addressed to a broadcast IP address of a network AND the packet not being or network administration traffic AND and the packet not having a protocol listed in a list of protocols previously determined assumed to be harmless network broadcast traffic, to determine and report that saidthe packet is a new, exploit candidate.

- 10. (Currently Amended) TheA computer program product of as set forth in claim 1 wherein saidthe third program instructions determine if saidthe packet is network administration traffic by comparing an IP protocol and IP address of saidthe packet to a list of combinations of IP protocols and IP addresses previously determined assumed to be network administration traffic.
- 11. (Currently Amended) TheA computer program product of as set forth in claim 2 wherein said the sixth program instructions determine if said the packet is web crawler traffic by comparing an IP address of said the packet to a list of IP addresses of known web crawlers.

12. (Currently Amended) TheA computer program product of as set forth in claim 1 further comprising sixth program instructions, responsive to said the packet not being a known exploit, AND the packet not being network broadcast traffic, AND the packet not being -addressed to a broadcast IP address of a network AND the packet not being a mother type of traffic known to be benign, to identify a sequence of packets including the first said packet, said the sequence of packets being a new, exploit candidate; and wherein

saidthe sixth program instructions are stored embodied on saidthe computer-readable tangible storage devicemedium.

Claims 13-20 (Canceled)

21. (Currently Amended) A computer program product for automatically determining if a packet is a new, exploit candidate, saidthe computer program product comprising:

a computer\_readable tangible storage devicemedium;

first program instructions to determine if saidthe packet is a known exploit-or portion thereof;

second program instructions to determine if saidthe packet is addressed to a broadcast IP address of a network;

third program instructions to determine if saidthe packet has a protocol listed in a list of protocols previously determined assumed to be harmless broadcast traffic;

fourth program instructions to determine if saidthe packet is network administration traffic;

fifth program instructions, responsive to saidthe packet being a known exploit-or portion thereof, OR the packet being addressed to a broadcast IP address of a network OR the packet being or network administration traffic OR the packet or having a protocol listed in a list of protocols previously determined assumed to be harmless broadcast traffic, to determine that saidthe packet is not a new, exploit candidate; and

sixth program instructions, responsive to saidthe packet not being a known exploit or portion thereof; AND the packet not being addressed to a broadcast IP address of a network AND the packet not being or network administration traffic AND the packet and not having a protocol listed in a list of protocols previously determined assumed to be harmless broadcast traffic, to determine and report that saidthe packet is a new, exploit candidate; and wherein

saidthe first, second, third, fourth, fifth and sixth program instructions are stored embodied on saidthe computer-readable tangible storage devicemedium.

22. (Currently Amended) The A computer program product of as set forth in claim 21 further comprising:

seventh program instructions to determine if saidthe packet is web crawler traffic; and wherein

saidthe fifth program instructions are responsive to saidthe packet being a known exploit-or-portion thereof, OR the packet being addressed to a broadcast IP address of a network, OR the packet being network administration traffic OR the packet being or web crawler traffic OR the packet or-having a protocol listed in a list of protocols previously determined assumed to be harmless broadcast traffic, to determine that saidthe packet is not a new, exploit candidate; and

saidthe sixth program instructions are responsive to saidthe packet not being a known exploit or portion thereof, AND the packet not being addressed to a broadcast IP address of a network, AND the packet not being network administration traffic AND the packet not being or web crawler traffic AND the packet not being or other traffic known to be benign AND the packet not or having a protocol listed in a list of protocols previously determined assumed to be harmless broadcast traffic, to determine that saidthe packet is a new, exploit candidate; and

saidthe seventh program instructions are stored embodied on saidthe computer-readable tangible storage devicemedium.

23. (Currently Amended) The A computer program product of as set forth in claim 21 further comprising:

seventh program instructions, responsive to <u>saidthe</u> sixth program instructions determining that <u>saidthe</u> packet is a new, exploit candidate, to determine a signature of <u>saidthe</u> packet or a sequence of packets including the first <u>saidthe</u> packet, and report <u>saidthe</u> new, exploit candidate and <u>saidthe</u> signature to an administrator; and wherein

saidthe seventh program instructions are stored embodied on saidthe computerreadable tangible storage devicemedium.

24. (Currently Amended) TheA computer program product of as set forth in claim 21 wherein saidthe second program instructions determine if saidthe packet is addressed to a broadcast IP address of saidthe network by comparing a destination IP address of saidthe packet to a gateway IP address of the network and a netwask of saidthe network which identifies a broadcast IP address of saidthe network.

Please enter new claims 25-28, as follows:

25. (New) A computer system for automatically determining if a packet is a new, exploit candidate, the computer system comprising:

one or more processors, one or more computer-readable memories, one or more computer-readable tangible storage devices, and program instructions stored on at least one of the one or more storage devices for execution by at least one of the one or more processors via at least one of the one or more memories, the program instructions comprising:

first program instructions to determine if the packet is a known exploit;

second program instructions to determine if the packet is addressed to a broadcast IP address of a network;

third program instructions to determine if the packet is network administration traffic;

fourth program instructions, responsive to the packet being a known exploit OR the packet being addressed to a broadcast IP address of a network OR the packet being network administration traffic, to determine that the packet is not a new, exploit candidate; and

fifth program instructions, responsive to the packet not being a known exploit AND the packet not being addressed to a broadcast IP address of a network AND the packet not being network administration traffic AND the packet not being another type of traffic known to be benign, to determine and report that the packet is a new, exploit candidate.

## 26. (New) The computer system of claim 25 further comprising:

sixth program instructions, stored on at least one of the one or more storage devices for execution by at least one of the one or more processors via at least one of the one or more memories, to determine if the packet is web crawler traffic; and wherein

the fourth program instructions are responsive to the packet being a known exploit OR the packet being addressed to a broadcast IP address of a network OR the packet being network administration traffic OR the packet being web crawler traffic, to determine that the packet is not a new, exploit candidate; and

the fifth program instructions are responsive to the packet not being a known exploit AND the packet not being addressed to a broadcast IP address of a network AND the packet not being network administration traffic AND the packet not being web crawler traffic, to determine that the packet is a new, exploit candidate.

27. (New) The computer system of claim 25 wherein the packet was received by a honeypot computing device at an unused IP address, and the first, second, third, fourth and fifth program instructions are executed at the honeypot computing device.

## 28. (New) The computer system of claim 25 further comprising:

sixth program instructions, stored on at least one of the one or more storage devices for execution by at least one of the one or more processors via at least one of the one or more memories, responsive to the fifth program instructions determining that the packet is a new exploit candidate, to determine a signature of the packet, and report the new exploit candidate and the signature to an administrator.